## **PATENTS**

NAME OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.

10/713,279

Confirmation No.: 1104

Applicant(s):

LORENZO COSTA, ET AL.

Filed:

November 14, 2003

TC/A.U.

1754

Examiner:

Maribel Medina Sanabria

Title:

Sol-Gel Process for the Manufacture of Nanocomposite Photoluminescent

Materials and Materials Thus Produced

Docket No.:

033965.0021

Customer No.:

25461

## MAIL STOP AMENDMENT

**Commissioner for Patents** 

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

## **AMENDMENT**

In response to the Office Action of September 3, 2004, please amend the application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 8 of this paper.

## **CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on December 29, 2004.

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Amdt. dated Dec. 29, 2004

Resp. to Office Action of Sept. 3, 2004

in the red light region, that only occurs if the material is treated at higher than 1000° C. The

material is not photoluminescent in the infrared region as is the nanocomposite material defined

by the present claims. Moreover, the material does not show infrared absorbance as does the

claimed nanocomposite material. Consequently, Mutti does not describe the claimed subject

matter within the meaning of 35 U.S.C. § 102. Neither are there any suggestions, reasons or

motivation in Mutti whereby a person skilled in the art would arrive at the process of producing

the product or the product itself as defined in the present claims. Nothing would lead a person

having ordinary skill in the art to modify the Mutti substances so as to have photoluminescence

in the red light region or to create a material having photoluminescence in the infrared region at

ambient temperature and having infrared absorbance.

For the reasons set forth above, applicants respectfully submit that the rejections are not

proper and should be withdrawn.

Favorable action at the Examiner's earliest convenience is respectfully requested.

Respectfully submitted,

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